Metric Measurement

| Quantity Being Measured | Definition | SI Unit Used | Abbreviation |
|----------------------------|--|--|--|
| Mass | Measure of the amount of matter in an object | gram (most common unit) | g |
| Length | Distance between two points | meter | m |
| Amount of Substance | Expression of the number of particles in a sample | mole | mol |
| Temperature | Measure of heat flow between objects | Kelvin (used in chem as the SI base unit) Celsius (more common unit) | K °C |
| Volume | Amount of space occupied by an object V= length x width x height | liter (used for volume of liquids) cubic meter (used for volume of solids) | L m ³ |
| Time | Measure of distance between events | second | S |
| Density | Ratio that compares the mass of an object to its volume D=M/V | Any unit of mass divided by any unit of volume | Most common: g/mL or g/cm ³ |
| Electric Current | Flow of electric charge | ampere | A |
| Luminous Intensity | Brightness of light emitted from a source | candela | cd |
| Energy | Capacity to do work or transfer heat | Joules | J |
| Pressure | Force exerted per unit area | Pascals | Pa |